

Title (en)

SHAPED COILS FOR TRANSCRANIAL MAGNETIC STIMULATION

Title (de)

GEFORMTE SPULEN ZUR TRANSKRANIALEN MAGNETISCHEN STIMULIERUNG

Title (fr)

BOBINES FAÇONNÉES POUR STIMULATION MAGNÉTIQUE CÉRÉBRALE

Publication

EP 2384223 A4 20140618 (EN)

Application

EP 10729491 A 20100107

Priority

- US 2010020324 W 20100107
- US 14310309 P 20090107

Abstract (en)

[origin: WO2010080879A2] Described herein are shaped coil TMS electromagnets formed by two bent magnetic coil loops joined at a vertex having an angle between the outer coil regions of the coils that is typically less than 120 degrees (e.g., between about 45 and about 70 degrees, 60 degrees, etc.). The vertex region shaped to optimize the magnetic field projected from the TMS electromagnet. For example, the vertex region may be horizontal or vertical. In some variations the vertex region is formed by re-arranging the conductive windings forming the two coils so that they are no longer arranged in the same columnar structure that they are in the other portions of the bent magnetic coil loops. These TMS electromagnets may be well suited for use in deep-brain Transcranial Magnetic Stimulation.

IPC 8 full level

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CPC (source: EP US)

A61N 2/006 (2013.01 - EP US); **A61N 2/02** (2013.01 - EP US)

Citation (search report)

- [X] WO 2006134598 A2 20061221 - BRAINSWAY INC [US], et al
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Citation (examination)

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- -H VERNON WEH-HAU LIN* ET AL: "Magnetic Coil Design Considerations for Functional Magnetic Stimulation", IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, IEEE SERVICE CENTER, PISCATAWAY, NJ, USA, vol. 47, no. 5, 1 May 2000 (2000-05-01), XP011006885, ISSN: 0018-9294

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DOCDB simple family (publication)

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US 8723628 B2 20140513; US 9132277 B2 20150915; US 9381374 B2 20160705

DOCDB simple family (application)

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